PTO/SB/08a (05-07)
Approved for use through 11/30/2007. OMB 0651-0031
U.S. Patent and Tradsmark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

	Application Number		10617979	
	Filing Date		2003-07-11	
INFORMATION DISCLOSURE	First Named Inventor Henkin		tin et al.	
(Not for submission under 37 CFR 1.99)	Art Unit		1637	
(Not for submission under 37 of it 1.33)	Examiner Name Samu		uel C. Woolwine	
	Attorney Docket Numb	er	22727/04130	

					U.S.I	PATENTS		····		
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Da	ate	Name of Pate of cited Docu	entee or Applicant Iment Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear			
***************************************	1									
If you wish	n to a	 dd additional U.S. Pate	nt citatio	n informa	tion pl	ease click the	Add button.			***************************************
			U.S.P	ATENT A	PPLIC	CATION PUB	LICATIONS			
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publicati Date	ion			s,Columns,Lines where vant Passages or Relev es Appear		
	1									
If you wisl	n to a	dd additional U.S. Publ	ished Ap	plication	citatio	n information p	olease click the Add	d butto	n.	
				FOREIG	N PAT	ENT DOCUM	IENTS			
Examiner Initial*	Cite No	Foreign Document Number³	Country Code ²		Kind Code⁴	Publication Date	Name of Patente Applicant of cited Document		Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T 5
/S.W./	1	2004/007677	WO	***************************************		2004-01-22	The Ohio State Uni	versity		
If you wisi	n to a	l dd additional Foreign P	atent Do	cument c	itation	information p	lease click the Add	buttor	1	
			NON	N-PATEN	T LITE	RATURE DO	CUMENTS			
Examiner Initials*	Cite No	Include name of the a (book, magazine, jour publisher, city and/or	rnal, seri	al, sympo	sium,	catalog, etc),				T 5

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number		10617979		
Filing Date		2003-07-11		
First Named Inventor Hen		kin et al.		
Art Unit		1637		
Examiner Name Sam		uel C. Woolwine		
Attorney Docket Number		22727/04130		

/S.W./		1	Artsimovitch, I., et al., "RNA polymerases from Bacillus subtilis and escherichia coli differ in recognition of regulatory signals in vitro", (2000) J. Bacteriol. 182, 6027–6035.	
	000000000000000000000000000000000000000	2	Grandoni, J. A., et al., "Regions of the Bacillus subtilis ilv-leu Operon involved in regulation by Leucine" (1993) J. Bacteriol. 175, 7581–7593.	
		3	Grundy, F. J., et al., "Interaction between the acceptor end of tRNA and the T box stimulates antitermination in the bacillus subtilis tyrS gene: a new role for the discriminator base" (1994) J. Bacteriol. 176, 4518–4526.	To and the second
		4	Grundy, F. J., et al., "tRNA determinants for transcription antiterminatin of the bacillus subtilis tyrS gene". (2000) RNA 6, 1131–1141.	
		5	Grundy et al., "Monitoring uncharged tRNA during transcription of the bacillus subtilis glyQS Gene", (2005) J Mol Biol, 346, 73-81.	
		6	Hager, D. A.,et al., "Use of mono Q high-resolution ion-exchange chromatography to obtain highly pure and actdive escherichia coli RNA polymerase", (1990) Biochemistry 29, 7890–7894.	
		7	Hurwitz et al., "The intracellular concentration of bound and unbound magnesium ions in escherichia coli", (1967) J of Biol. Chemistry, 242, 3719-3722.	
		8	Landick, R., Turnbough, C. L., Jr., & Yanofsky, C. (1996) in Escherichia coli and Salmonella: Cellular and Molecular Biology, eds. Neidhardt, F. C., Curtis, R., III, Ingraham, J. L., Lin, E. C. C., Low, K. B., Magasanik, B., Reznikoff, W. S., Riley, M., Schaecter, A. & Umbarger, H. E. (Am. Soc. Microbiol., Washington, DC), 1263–1286.	
		9	Luo, D., et al., "In vitro and in vivo secondary structure probing of the thrS leader in Bacillus subtilis", (1998) Nucleic Acids Res. 26, 5379–5387.	
		10	Nelson et al., "tRNA regulation of gene expression: Interactions of an mRNA 5'-UTR with a regulatory tRNA", (2006) RNA, 12, 1-8.	The state of the s
S. S		11	Qi, Y. & Hulett, F. M. "PhoP~P and RNA polymerase σA holoenzyme are sufficient for transcription of Pho regulon promoters in bacillus subtilis: PhoP~P activator sites within the coding region stimulate transcription in vitro", (1998) Mol. Microbiol. 28, 1187–1197.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Art Unit		10617979			
		2003-07-11			
		nkin et al.			
		1637			
		nuel C. Woolwine			
Attorney Docket Number		22727/04130			

/8	.W./	12	Rollins, S. M., et al., "Analysis of cis-acting sequence and structural elements required for antiterminatin of the bacillus subtilis tyrS gene", (1997) Mol. Microbiol. 25, 411—421.	
***************************************		13	Winkler, W. C., et al., "The GA motif: an RNA element common to bacterial antitermination systems, rRNA, and eukaryotic RNAs", (2001) RNA 7, 1165–1172.	
		14	Yousef et al., "Structural transitions induced by the interaction between tRNAGLY and the bacillus subtilis glyQS T box leader RNA", (2005) J Mol Biol, 349, 273-287.	
		15	Henkin et al., "Sensing Metabolic Signals with nascent RNA transcripts: the T-box and S-box riboswitches as paradigms", (2007) Cold Spring Harbor Symposia on Quantitative Biology, vol. LXXI, 1-7.	
		16	Grundy, F. J. & Henkin, T. M. "tRNA as a positive regulator of transcription antitermination in B. subtilis", (1993) Cell 74, 475–482.	THE CONTRACT OF THE CONTRACT O
		17	Anagnostopoulos, C. & Spizizen, J. "Requirements for Transformation in Bacillus Subtilis", (1961) J. Bacteriol. 81, 741-746.	
T MANAGEMENT CO.		18	Ban et al., "The Complete Atomic Structure of the Large Ribosomal Subunit at 2.4 A Resolution", (2000) Science 289, 905-920.	
		19	Friedman, D. I. & Court, D. L. "Bacteriophage lambda: alive and well and still doing its thing", (2001) Curr. Opin. Microbiol. 4, 201-207.	
		20	Giege et al., "Universal rules and idiosyncratic features in tRNA identity", (1998) Nucleic Acids Res. 26, 5017-5035.	
	000000000000000000000000000000000000000	21	Grundy et al., "Regulation of the Bacillus subtilis Acetate Kinase Gene by CcpA", (1993) J. Bacteriol, 175, 7348-7355.	The state of the s
1		22	Ogle et al., "Recognition of Cognate Transfer RNA by the 30S Ribosomal Subunit", (2001) Science 292, 897-902.	
			····	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number		10617979		
Filing Date	•	2003-07-11		
First Named Inventor Henk		rin et al.		
Art Unit		1637		
Examiner Name Sam		uel C. Woolwine		
Attorney Docket Number		22727/04130		

/S.W./ 23			Qiu et al., "The tRNA-binding moiety in GCN2 contains a dim- and is required for tRNA binding and kinase activation", (200	erization domain that interacts wi I) EMBO J. 20, 1425-1438.	th the kinase domain				
000000000000000000000000000000000000000	24		Rhodes, G. & Chamberlin, M. J. ""Ribonucleic Acid Cain Elongation by Escherichia coli Ribonucleic Acid Polymerase", (1974) J. Biol. Chem. 249, 6675-6683.						
30000000000000000000000000000000000000	Sankaranarayanan et al., "The Structure of Threonyl-tRNA Synthetase-tRNA Complex Enlightens Its Repressor Activity and Reveals an Essential Zinc Ion in the Active Site", (1999) Cell 97, 371-381.								
Хооооооооооооооооооо	Treiber, D. K. & Williamson, J. R. "Beyond kinetic traps in RNA folding", 82, 221-230.(2001) Curr. Opin. Struct. Biol. 11, 309-314.								
***************************************	Weeks, K. M. & Cech, T. R. "Protein Facilitation of Group I Intron Splicing by Assembly of the Catalytic Core and the Splice Site Domain", (1995) Cell 82, 221-230.								
V	28	Guerrier-Takada et al., "The RNA Moiety of Ribonuclease P Is the Catalytic Subunit of the Enzyme", (1983) Cell 35, 849-857.							
If you	wish to	ado	d additional non-patent literature document citation info	rmation please click the Add t	outton				
			EXAMINER SIGNA	TURE					
Exam	iner Siç	gnati	ure /Samuel Woolwine/	Date Considered	05/05/2008				
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.									
¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WiPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here is English language translation is attached.									